

# vtech<sup>®</sup>

## User's manual

Accessory baby unit  
for use with VTech models  
VM321/VM321-2

[www.vtechbabymonitors.com](http://www.vtechbabymonitors.com)



Model: VM301

24  
GHz

## Congratulations

on purchasing your new VTech product. Before using this product, please read **Important safety instructions** on page ii of this manual.

This manual has instructions on how to set up and pair your new baby unit. For complete instructions on using the baby unit, see the user's manual that came with your video and audio monitor.

If you cannot find the user's manual, you can view or download it at [www.vtechbabymonitors.com](http://www.vtechbabymonitors.com). In Canada, visit [www.vtechcanada.com](http://www.vtechcanada.com).

# Important safety instructions

When using your equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury, including the following:

1. Follow all warnings and instructions marked on the product.
2. Adult setup is required.
3. This product is intended as an aid. It is not a substitute for responsible and proper adult supervision and should not be used as such.
4. This product is not intended for use as a medical monitor.
5. Do not use this product near water. For example, do not use it next to a bath tub, wash bowl, kitchen sink, laundry tub or swimming pool, or in a wet basement or shower.
6. Use only the batteries indicated in this manual. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
7. Use only the adapter included with this product. Incorrect adapter polarity or voltage can seriously damage the product.  
Baby unit power adapter: Input 100-120V AC 50/60 Hz; output: 6V DC 800 mA
8. The power adapter is intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, under-the-table or cabinet outlet.
9. Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
10. Unplug the power cord before replacing batteries.
11. Do not cut off the power adapter to replace it with other plug, as this causes a hazardous situation.
12. Do not allow anything to rest on the power cord. Do not install this product where the cord may be walked on or crimped.
13. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply in your home, consult your dealer or local power company.
14. Do not overload wall outlet or use an extension cord.
15. Do not place this product on an unstable table, shelf, stand or other unstable surfaces.
16. This product should not be placed in any area where proper ventilation is not provided. Slots and openings in the back or bottom of this product are provided for ventilation. To protect them from overheating, these openings must not be blocked by placing the product on a soft surface such as a bed, sofa or rug. This product should never be placed near or over a radiator or heat register.
17. Never push objects of any kind into this product through the slots because they may touch dangerous voltage points or create a short circuit. Never spill liquid of any kind on the product.
18. To reduce the risk of electric shock, do not disassemble this product, but take it to an authorized service facility. Opening or removing parts of the product other than specified access doors may expose you to dangerous voltages or other risks. Incorrect reassembling can cause electric shock when the product is subsequently used.

## Important safety instructions (continued)

19. You should test the sound reception every time you turn on the units or move one of the components.
20. Periodically examine all components for damage.
21. Be aware of possible loss of privacy while using public airwaves. Conversations may be picked up by other nursery monitors, cordless phones, scanners, etc.
22. Children should be supervised to ensure that they do not play with the product.
23. The product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

### SAVE THESE INSTRUCTIONS

## Cautions

1. Use and store the product at a temperature between 32°F and 104°F.
2. Do not expose the product to extreme cold, heat or direct sunlight. Do not put the product close to a heating source.
3. Batteries should not be exposed to excessive heat such as bright sunshine or fire.
4. Make sure the baby unit and the adapter cord are always out of reach of the baby, at least 3 feet away from the baby or crib, to avoid a possible strangulation hazard.
5. Never place the baby unit inside the baby's crib or playpen.
6. Never cover the baby unit or parent unit with anything such as a towel or a blanket.
7. Other electronic products may cause interference with your video and audio monitor. Try installing your video and audio monitor as far away from these electronic devices as possible: wireless routers, radios, cellular telephones, intercoms, room monitors, televisions, personal computers, kitchen appliances and cordless telephones.

## Electromagnetic fields (EMF)

This VTech product complies with all standards regarding electromagnetic fields (EMF). If handled properly and according to the instructions in this user's manual, the product is safe to be used based on scientific evidence available today.

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# Getting started

## Parts checklist

Check to make sure the package contains the following items. Save your sales receipt and original packaging in the event warranty service is necessary.



Baby unit



Baby unit battery compartment cover \*



Baby unit power adapter \*



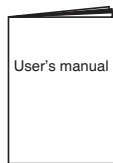
Screws (2) \*



Wall anchors (2) \*



Wall mount \*



User's manual \*



Important information \*

\* indicates replacements are available. For more information, visit our website at [www.vtechbabymonitors.com](http://www.vtechbabymonitors.com) or call 1 (800) 595-9511. In Canada, go to [www.vtechcanada.com](http://www.vtechcanada.com) or call 1 (800) 267-7377.

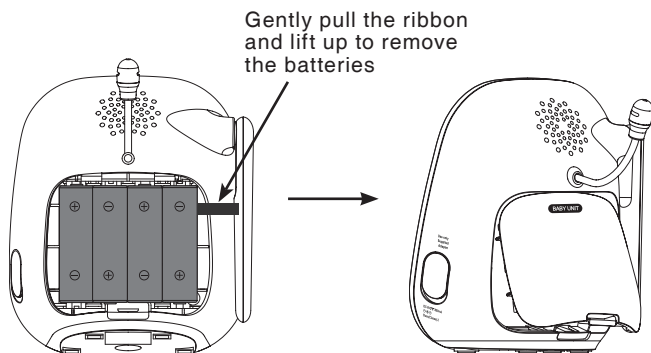
# Getting started

## Baby unit battery installation

You can power up the baby unit by connecting it to AC power or to four AA alkaline batteries. Even if the baby unit is connected to AC power, we recommend you also install four AA alkaline batteries. This guarantees continual operation in case of a power outage.

Install four AA alkaline batteries (not supplied) into the battery compartment, matching the polarity markings (+ and -) inside the battery compartment.

Make sure the ribbon attached inside the battery compartment is put under the batteries and the excess ribbon is tucked in properly. Then replace the battery compartment cover.



### note

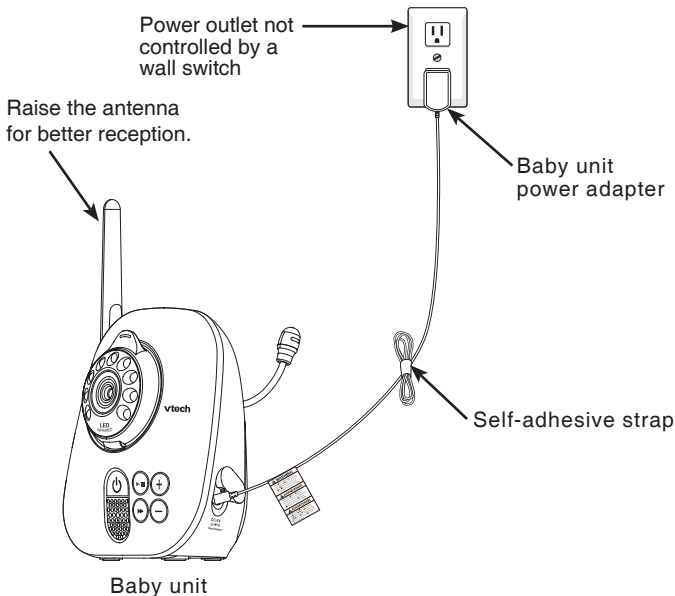
- Do not mix old and new batteries. Do not mix alkaline and standard (carbon-zinc) batteries.
- The operating time for using AA batteries is short, only for a few hours. If you want to monitor your baby for a long time, we recommend you connect your baby unit to AC power.
- If the baby unit will not be used for a long time, disconnect and remove the battery to prevent possible leakage.
- You can use rechargeable AA batteries for the baby unit, but the baby unit cannot charge rechargeable batteries.

# Getting started

## Baby unit installation

Install the baby unit as shown below.

Make sure that the power outlet is not controlled by a wall switch. Bundle the power cord neatly with the self-adhesive strap.



### note

- Use only the baby unit power adapter supplied with this product. To order a replacement, visit our website at [www.vtechbabymonitors.com](http://www.vtechbabymonitors.com) or call 1 (800) 595-9511. In Canada, go to [www.vtechcanada.com](http://www.vtechcanada.com) or call 1 (800) 267-7377.
- The baby unit power adapter is intended to be correctly oriented in a vertical or floor mount position. The prongs are not designed to hold the plug in place if it is plugged into a ceiling, under-the-table or cabinet outlet.
- Make sure the baby unit and the power adapter cord are out of reach of children.



# Getting started

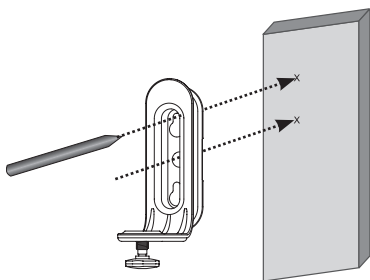
## Baby unit installation options

The baby unit is ready for tabletop use. Use the provided wall mount if you want to mount it on a wall. Make sure to test the reception and the baby unit position before completing the wall mounting installation.

### Tabletop to wall mount installation

**Option 1:** Use this method to fix the wall mount securely on the wall.

1. Place the wall mount on a wall and then use a pencil to mark the top two holes as shown. Then remove the wall mount and drill two holes in the wall (7/32" drill bit). Check for reception strength and camera angle before drilling the holes.



2. If you drill the holes into a stud, go to step 3.

**-OR-**

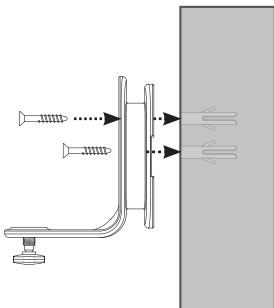
If you drill the holes into an object other than a stud, insert the wall anchors into the holes and tap gently on the ends with a hammer until the wall anchors are flush with the wall.



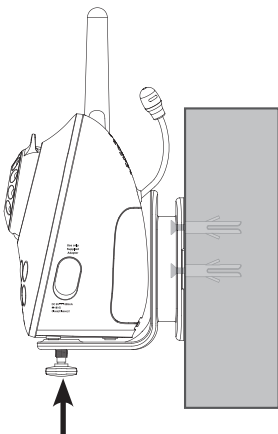
## Getting started

### Baby unit installation options (continued)

3. Align the wall mount and screws with the holes in the wall as shown. Make sure to attach the screw in the middle hole first so that the wall mount position is fixed. Then attach the other screw in the top hole.



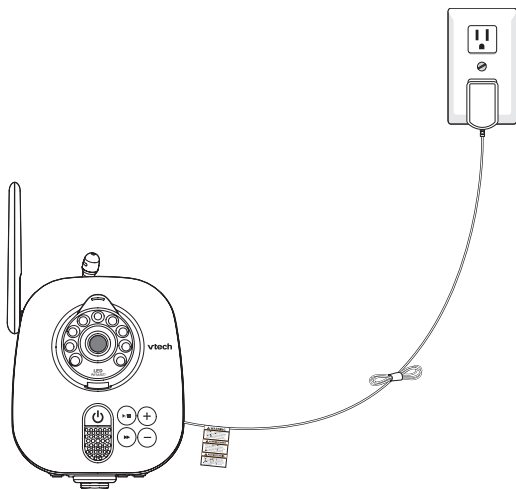
4. Place the baby unit on the wall mount and tighten the screw into the threaded socket at the bottom to secure the baby unit.



## Getting started

### Baby unit installation options (continued)

5. Bundle the power cord neatly with the self-adhesive strap. Make sure to keep the power adapter cord away from children's reach.

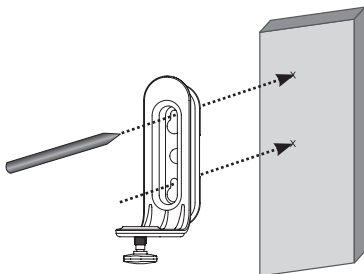


## Getting started

### Baby unit installation options (continued)

**Option 2:** Use this method so that you can relocate the baby unit with the wall mount easily.

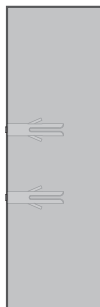
1. Place the wall mount on a wall and then use a pencil to mark the top and the bottom holes as shown. Then remove the wall mount and drill two holes in the wall (7/32" drill bit). Check for reception strength and camera angle before drilling the holes.



2. If you drill the holes into a stud, go to step 3.

**-OR-**

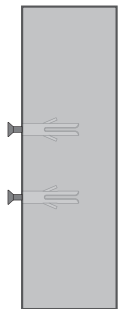
If you drill the holes into an object other than a stud, insert the wall anchors into the holes and tap gently on the ends with a hammer until the wall anchors are flush with the wall.



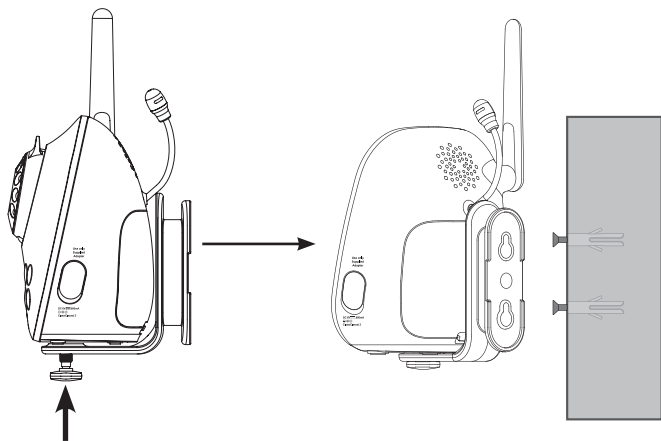
## Getting started

### Baby unit installation options (continued)

3. Insert the screws into the holes and tighten the screws until only 1/4 inch of the screws are exposed.



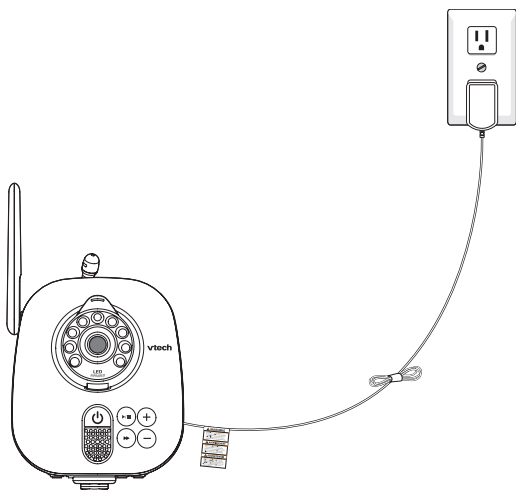
4. Place the baby unit on the wall mount and tighten the screw into the threaded socket at the bottom to secure the baby unit. Align the holes on the wall mount with the screws on the wall and slide the wall mount down until it locks into place.



## Getting started

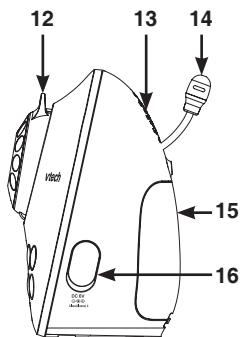
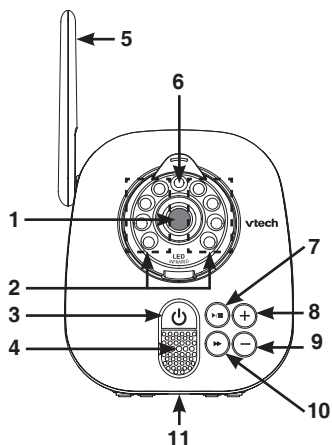
### Baby unit installation options (continued)

5. Bundle the power cord neatly with the self-adhesive strap. Make sure to keep the power adapter cord away from children's reach.



# Getting started

## Baby unit overview



**1 – Camera**

**2 – Infrared LEDs**

Backup light for night vision.

**3 –  (On/off)**

Press and hold to turn on or off.

**4 – Microphone**

**5 – Antenna**

**6 – Light sensor**

**7 –  (Play/stop)**

Press to play lullabies.

Press to stop playing lullabies.

**8 – + (Volume up)**

Press to increase the listening volume.

**9 – - (Volume down)**

Press to decrease the listening volume.

**10 –  (Skip)**

Press to skip to the next lullaby.

**11 – Threaded socket (1/4 in)**

For installation of the provided wall mount or a tripod (not provided).

**12 – Camera angle adjustment tab**

Tilt to adjust camera angle.

**13 – Speaker**

To listen to lullabies.

To listen to broadcasts from the parent unit.

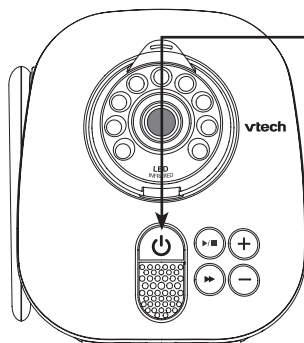
**14 – Temperature sensor**

**15 – Battery compartment cover**

**16 – Power jack**

# Getting started

## Baby unit lights



### ⏻ (On/off)

On in red when the baby unit is powered by batteries.

On in green when the baby unit is powered by AC power.

On in orange when the baby unit is not paired to the parent unit.

Flashes in red when the baby unit battery is low.

Flashes alternately in red and green when the baby unit is in pairing mode.



## Getting started

### Add and pair a baby unit

Each newly purchased baby unit (**VM301**) must be paired to the parent unit before use. Make sure you power on the baby unit and the parent unit before pairing.



#### To pair a baby unit:

1. On the idle parent unit, press **MENU/SELECT**.
2. Press **▼** or **▲** to choose **PAIR/UNPAIR CAM**, then press **MENU/SELECT** or **▶**.
3. Press **MENU/SELECT** or **▶** again to choose **Pair new CAM**.
4. Press **▼** or **▲** to choose a desired baby unit slot, then press **MENU/SELECT**.
5. When the screen displays **Please press both [+]** and **[-] keys on CAM side until POWER indicator flashes Red and Green light**, immediately press and hold **+** and **-** for 5 seconds on the new baby unit. The **⏻** light on the new baby unit flashes red and green alternately.
6. When pairing is successful, the screen displays the image from the newly paired baby unit. The **⏻** light on the new baby unit turns red when it is powered by AA batteries or turns green when it is powered by AC power.

#### note

- If pairing fails, the screen displays **Pairing failed**. Try the pairing process again.
- Any new baby unit paired to an occupied baby unit slot will unpair the current unit.
- Only one baby unit can be paired at a time.

## Getting started

### Unpair a baby unit

Make sure you power on the baby unit and the parent unit before unpairing the baby unit.



#### To unpair a baby unit:

1. On the idle parent unit, press **MENU/SELECT**.
2. Press ▼ or ▲ to choose **PAIR/UNPAIR CAM**, then press **MENU/SELECT** or ►.
3. Press ▼ or ▲ to choose **Unpair CAM**, then press **MENU/SELECT** or ►.
4. Press ▼ or ▲ to choose a desired baby unit, then press **MENU/SELECT**.
5. Press ⊕ when the screen displays **To unpair CAM # from the system**, press **[zoom] key**.
6. Press **MENU/SELECT** when the screen displays **Press [MENU/SELECT] key to confirm**.
7. When unpairing is successful, the screen displays the image of the next paired baby unit. If there is no paired baby unit, the screen displays **No CAM paired**.

# Appendix

## Operating range

This product operates with the maximum power allowed by the Federal Communications Commission (FCC). Even so, this baby unit and parent unit can communicate over only a certain distance - which can vary with the locations of the baby unit, the parent unit, the weather, and the layout of your home.

When the parent unit is out of range, the parent unit displays **Waiting for linking...**

To improve reception, move closer to the baby unit (but not less than 3 feet).

## Maintenance

### Taking care of your video and audio monitor

Your video and audio monitor contains sophisticated electronic parts, so it must be treated with care.

### Avoid rough treatment

Place the baby unit and parent unit down gently. Save the original packing materials to protect your video and audio monitor if you ever need to ship it.

### Avoid water

Your video and audio monitor can be damaged if it gets wet. Do not use the parent unit and/or baby unit outdoors in the rain, or handle it with wet hands. Do not install the video and audio monitor near a sink, bathtub or shower.

### Electrical storms

Electrical storms can sometimes cause power surges harmful to electronic equipment. For your own safety, take caution when using electrical appliances during storms.

### Cleaning your video and audio monitor

Your video and audio monitor has a durable plastic casing that should retain its luster for many years. Clean it only with a soft cloth slightly dampened with water or mild soap. Do not use excess water or cleaning solvents of any kind.

Remember that electrical appliances can cause serious injury if used when you are wet or standing in water. If the baby units and/or parent unit should fall into water, **DO NOT RETRIEVE IT UNTIL YOU UNPLUG THE POWER CORDS FROM THE WALL.** Then pull the units out by the unplugged cords.

# Appendix

## Precautions for users of implanted cardiac pacemakers

Cardiac pacemakers (applies only to digital cordless devices):

Wireless Technology Research, LLC (WTR), an independent research entity, led a multidisciplinary evaluation of the interference between portable wireless devices and implanted cardiac pacemakers. Supported by the U.S. Food and Drug Administration, WTR recommends to physicians that:

### Pacemaker patients

- Should keep wireless devices at least six inches from the pacemaker.
- Should NOT place wireless devices directly over the pacemaker, such as in a breast pocket, when it is turned ON.

WTR's evaluation did not identify any risk to bystanders with pacemakers from other persons using wireless devices.

# Appendix

## Limited warranty

### What does this limited warranty cover?

The manufacturer of this VTech Product warrants to the holder of a valid proof of purchase (“Consumer” or “you”) that the Product and all accessories provided in the sales package (“Product”) are free from defects in material and workmanship, pursuant to the following terms and conditions, when installed and used normally and in accordance with the Product operating instructions. This limited warranty extends only to the Consumer for Products purchased and used in the United States of America and Canada.

### What will VTech do if the Product is not free from defects in materials and workmanship during the limited warranty period (“Materially Defective Product”)?

During the limited warranty period, VTech’s authorized service representative will repair or replace at VTech’s option, without charge, a Materially Defective Product. If we repair the Product, we may use new or refurbished replacement parts. If we choose to replace the Product, we may replace it with a new or refurbished Product of the same or similar design. We will retain defective parts, modules, or equipment. Repair or replacement of the Product, at VTech’s option, is your exclusive remedy. VTech will return the repaired or replacement Products to you in working condition. You should expect the repair or replacement to take approximately 30 days.

### How long is the limited warranty period?

The limited warranty period for the Product extends for ONE (1) YEAR from the date of purchase. If VTech repairs or replaces a Materially Defective Product under the terms of this limited warranty, this limited warranty also applies to the repaired or replacement Product for a period of either (a) 90 days from the date the repaired or replacement Product is shipped to you or (b) the time remaining on the original one-year warranty; whichever is longer.

### What is not covered by this limited warranty?

This limited warranty does not cover:

1. Product that has been subjected to misuse, accident, shipping or other physical damage, improper installation, abnormal operation or handling, neglect, inundation, fire, water or other liquid intrusion; or
2. Product that has been damaged due to repair, alteration or modification by anyone other than an authorized service representative of VTech; or
3. Product to the extent that the problem experienced is caused by signal conditions, network reliability, or cable or antenna systems; or
4. Product to the extent that the problem is caused by use with non-VTech accessories; or
5. Product whose warranty/quality stickers, product serial number plates or electronic serial numbers have been removed, altered or rendered illegible; or
6. Product purchased, used, serviced, or shipped for repair from outside the United States of America or Canada, or used for commercial or institutional purposes (including but not limited to Products used for rental purposes); or
7. Product returned without a valid proof of purchase (see item 2 on the next page); or
8. Charges for installation or set up, adjustment of customer controls, and installation or repair of systems outside the unit.

# Appendix

## Limited warranty (continued)

### How do you get warranty service?

To obtain warranty service in the United States of America, visit [www.vtechbabymonitors.com](http://www.vtechbabymonitors.com) or call 1 (800) 595-9511. In Canada, go to [www.vtechcanada.com](http://www.vtechcanada.com) or call 1 (800) 267-7377. NOTE: Before calling for service, please review the user's manual - a check of the Product's controls and features may save you a service call.

Except as provided by applicable law, you assume the risk of loss or damage during transit and transportation and are responsible for delivery or handling charges incurred in the transport of the Product(s) to the service location. VTech will return repaired or replaced Product under this limited warranty. Transportation, delivery or handling charges are prepaid. VTech assumes no risk for damage or loss of the Product in transit. If the Product failure is not covered by this limited warranty, or proof of purchase does not meet the terms of this limited warranty, VTech will notify you and will request that you authorize the cost of repair prior to any further repair activity. You must pay for the cost of repair and return shipping costs for the repair of Products that are not covered by this limited warranty.

### What must you return with the Product to get warranty service?

1. Return the entire original package and contents including the Product to the VTech service location along with a description of the malfunction or difficulty; and
2. Include a "valid proof of purchase" (sales receipt) identifying the Product purchased (Product model) and the date of purchase or receipt; and
3. Provide your name, complete and correct mailing address, and telephone number.

### Other limitations

This warranty is the complete and exclusive agreement between you and VTech. It supersedes all other written or oral communications related to this Product. VTech provides no other warranties for this Product. The warranty exclusively describes all of VTech's responsibilities regarding the Product. There are no other express warranties. No one is authorized to make modifications to this limited warranty and you should not rely on any such modification.

**State/Provincial Law Rights:** This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state or province to province.

**Limitations:** Implied warranties, including those of fitness for a particular purpose and merchantability (an unwritten warranty that the Product is fit for ordinary use) are limited to one year from the date of purchase. Some states/provinces do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. In no event shall VTech be liable for any indirect, special, incidental, consequential, or similar damages (including, but not limited to lost profits or revenue, inability to use the Product or other associated equipment, the cost of substitute equipment, and claims by third parties) resulting from the use of this Product. Some states/provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

**Please retain your original sales receipt as proof of purchase.**

# Appendix

## FCC and IC regulations

### FCC Part 15

This equipment has been tested and found to comply with the requirements for a Class B digital device under Part 15 of the Federal Communications Commission (FCC) rules. These requirements are intended to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

To ensure safety of users, the FCC has established criteria for the amount of radio frequency energy that can be safely absorbed by a user or bystander according to the intended usage of the product. This product has been tested and found to comply with the FCC criteria. The baby unit shall be installed and used such that parts of the baby's body are maintained at a distance of approximately 8 in (20 cm) or more.

This Class B digital apparatus complies with Canadian ICES-003.

### Industry Canada

Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference, including interference that may cause undesired operation.

The term "IC:" before the certification/registration number only signifies that the Industry Canada technical specifications were met.

This product meets the applicable Industry Canada technical specifications.

### RF radiation exposure statement

The baby unit complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The baby unit should be installed and operated with a minimum distance of 8 in (20 cm) between the baby unit and the baby's body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment complies also with Industry Canada RSS-102 with respect to Canada's Health Code 6 for Exposure of Humans to RF Fields.

# Appendix

## Technical specifications

Frequency control	Crystal controlled PLL synthesizer
Transmit frequency	2402 - 2478.5 MHz
Channels	52
Nominal effective range	Maximum power allowed by FCC and IC. Actual operating range may vary according to environmental conditions at the time of use.
Power requirements	Batteries: 4 x AA alkaline batteries Power adapter: Input: 100-120V AC 50/60Hz Output: 6V DC @ 800mA



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